We claim:

1. A method of diagnosing or predicting susceptibility to an autoimmune disease in an individual, comprising determining the presence or absence in said individual of a 2-2-4 haplotype at the Notch 4, HSP70-HOM and D6S273 loci,

wherein the presence of said 2-2-4 haplotype is diagnostic of or predictive of susceptibility to said autoimmune disease.

- 2. The method of claim 1, wherein said autoimmune disease is an inflammatory bowel disease.
- 3. The method of claim 2, wherein said inflammatory bowel disease is Crohn's disease.
- 4. The method of claim 1, wherein said autoimmune disease is selected from the group consisting of rheumatoid arthritis and Type I diabetes mellitus.
- 5. The method of claim 1, wherein said individual is an Ashkenazi Jew.
- 6. The method of claim 1, wherein determining the presence or absence of the 2-2-4 haplotype comprises enzymatic amplification of nucleic acid from said individual.
 - 7. The method of claim 6, wherein determining the presence or absence of the 2-2-4 haplotype further comprises electrophoretic analysis.

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- 8. The method of claim 6, wherein determining the presence or absence of the 2-2-4 haplotype further comprises restriction fragment length polymorphism analysis.
- 9. The method of claim 6, wherein determining the presence or absence of the 2-2-4 haplotype further comprises sequence analysis.
- 10. The method of claim 1, wherein determining the presence or absence of the 2-2-4 haplotype comprises:
- (a) obtaining material comprising nucleic acid including Notch4, HSP70-HOM and D6S273 loci from said individual;
- (b) enzymatically amplifying said nucleic acid to produce a first amplified fragment comprising said Notch4 locus;
- (c) enzymatically amplifying said nucleic acid to produce a second amplified fragment comprising said HSP70-HOM locus; and
- (d) enzymatically amplifying said nucleic acid to produce a third amplified fragment comprising said D6S273 locus.
 - 11. The method of claim 10, wherein determining the presence or absence of the 2-2-4 haplotype further comprises:
- (e) electrophoresing said first amplified fragment, thereby determining whether a Notch4 allele 2 is present;

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- (f) electrophoresing said second amplified
 fragment, thereby determining whether a HSP70-HOM allele
 2 is present; and
- (g) electrophoresing said third amplified fragment, thereby determining whether a D6S273 allele 4 is present,

wherein the presence of said Notch4 allele 2, said HSP70-HOM allele 2 and said D6S273 allele 4 indicates that said 2-2-4 haplotype is present.

- 12. The method of claim 10, wherein step (c) further comprises restricting said second amplified fragment with Nco I or an isoschizomer thereof.
- 13. A method of diagnosing or predicting susceptibility to Crohn's disease in an individual, comprising determining the presence or absence in said individual of a disease-associated haplotype associated with a 2-2-4 haplotype at the Notch 4, HSP70-HOM and D6S273 loci,

wherein the presence of said disease-associated haplotype is diagnostic of or predictive of susceptibility to Crohn's disease.

- 14. The method of claim 13, wherein said disease-associated haplotype is associated with said autoimmune disease with an odds ratio of at least 5 and a lower 95% confidence limit greater than 1.
- 15. The method of claim 13, wherein said individual is an Ashkenazi Jew.

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- 16. The method of claim 13, wherein determining the presence or absence of the 2-2-4 haplotype comprises enzymatic amplification of nucleic acid from said individual.
- 5 17. A method of diagnosing or predicting susceptibility to Crohn's disease in an individual, comprising determining the presence or absence in said individual of a disease-associated allele associated with a 2-2-4 haplotype at the Notch 4, HSP70-HOM and D6S273 loci,

wherein the presence of said disease-associated allele is diagnostic of or predictive of susceptibility to Crohn's disease.

- 18. The method of claim 17, wherein said disease-associated allele is associated with said autoimmune disease with an odds ratio of at least 5 and a lower 95% confidence limit greater than 1.
- 19. The method of claim 17, wherein said individual is an Ashkenazi Jew.
- 20. The method of claim 17, wherein determining the presence or absence of the 2-2-4 haplotype comprises enzymatic amplification of nucleic acid from said individual.

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